

ABSTRACT

A mobile terminal apparatus that considers intervals between key input operations when characters are input, and, when there is an interval greater than a certain period of time between operations, or when a shift is made to different character input, reads aloud the voice corresponding to the stored input character and reads aloud only the character the user needs to check. In this apparatus, when other characters are continuously input by the same key input within a predetermined time, character selection fixing section 201 updates the stored content in present candidate storage section 202, outputs the updated candidate character to display control section 204 as a displaying character and displays the updated candidate character on liquid crystal display section 103. At this time, the voice corresponding to the displaying candidate character is not reproduced. When the predetermined time passes without key input, character selection fixing section 201 reads aloud the present candidate character stored in present candidate storage section 202, outputs the present candidate character to reading determination section 206 as a fixed character, and voice reproduction section 105 reproduces the voice corresponding to the fixed character.

FIG.2

- 104 KEY INPUT SECTION
- 201 CHARACTER SELECTION FIXING SECTION
FIXED
- 5 203 INPUT CHARACTER STRING STORAGE SECTION
- 204 DISPLAY CONTROL SECTION
- 103 LIQUID CRYSTAL DISPLAY SECTION
INPUTTING CHARACTER
UPDATED
- 10 202 PRESENT CANDIDATE STORAGE SECTION
DISPLAYING CHARACTER
- 205 TIMER SECTION
- 206 READING DETERMINATION SECTION
- 207 VOICE SYNTHESIS SECTION
- 15 105 VOICE REPRODUCTION SECTION

FIG.3

- S301 WAIT FOR INPUT
KEY INPUT/DISPLAY CANDIDATE CHARACTER
- 20 S302 DISPLAY CANDIDATE
LESS THAN 400MSEC PASS
NO KEY INPUT & 400MSEC PASS/READ ALOUD CANDIDATE CHARACTER
- S303 DISPLAY CANDIDATE
MORE THAN 400MSEC PASS
- 25 ANOTHER KEY INPUT/FIX AND READ ALOUD PRESENT CANDIDATE
DISPLAY NEW CANDIDATE CHARACTER
SAME KEY INPUT/DISPLAY NEXT CANDIDATE CHARACTER

FIG.4

PRESS KEY 1

WITHIN 400MSEC

5 BEYOND 400MSEC

READ ALOUD CANDIDATE CHARACTER

LIQUID CRYSTAL DISPLAY

FIG.5

10 PRESS KEY 1

WITHIN 400MSEC

BEYOND 400MSEC

LIQUID CRYSTAL DISPLAY

15 FIG.6

PRESS KEY 1

WITHIN 400MSEC

PRESS KEY 2 → "い" IS FIXED

LIQUID CRYSTAL DISPLAY

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